

Table 4. Analytical detection limits reported by laboratories used in the study

[mg/L, milligrams per liter; µg/L, micrograms per liter; ND, not determined; NR, not reported]

	units	Detection or Reporting Limits		
		USGS ICP-AES ¹	USGS ICP-MS ²	ActLabs ICP-MS ³
Major Constituents		(mg/L)		
Calcium, Ca		1	0.05	0.05
Magnesium, Mg		0.5	0.01	0.001
Sodium, Na		1	0.01	0.02
Potassium, K		1	0.03	ND
Minor Constituents		(µg/L except as noted)		
Aluminum, Al		0.5 mg/L	0.1 mg/L	2
Antimony, Sb		ND	0.1	0.01
Arsenic, As		ND	3	0.03
Barium, Ba		20	0.1	0.1
Beryllium, Be		20	0.05	NR
Boron, B		50	ND	NR
Cadmium, Cd		20	0.02	0.01
Chromium, Cr		40	1	0.5
Copper, Cu		80	0.5	0.2
Iron, total		0.5 mg/L	50	3
Lead, Pb		100	0.05	0.1
Lithium, Li		100	0.1	1
Manganese, Mn		40	0.01	0.1
Molybdenum, Mo		80	0.2	0.1
Nickel, Ni		80	0.1	0.05
Phosphorus, P		0.5 mg/L	0.01	ND
Selenium, Se		ND	5	0.2
Strontium, Sr		20	0.5	0.02
Zinc, Zn		40	0.5	0.5
Trace-element constituents		(µg/L except as noted)		
Cobalt, Co		2	0.02	0.005
Gallium, Ga		ND	0.02	NR
Rubidium, Rb		ND	0.01	0.005
Titanium, Ti		50	0.1	ND
Thallium, Ta		ND	0.05	0.005
Thorium, Th		ND	0.005	0.003
Uranium, U		0.001	0.005	0.001
Vanadium, V		10	0.1	0.05

¹(Briggs and Fey, 1996)²(Lamothe and others, 1999)³(ActLabs, written commun., 1997)